



## NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H111164

**Mode:** Highway

**Status:** Submitted

### US-421

**From/Cross Street:** US 1

**Specific Improvement Type:** 11 - Access Management

**To:** Former atlantic Coast Line Railroad Crossing

**Project Category:** Regional Impact

**Length:** 3.22

**TIP#:**

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$36,156,000

#### Description:

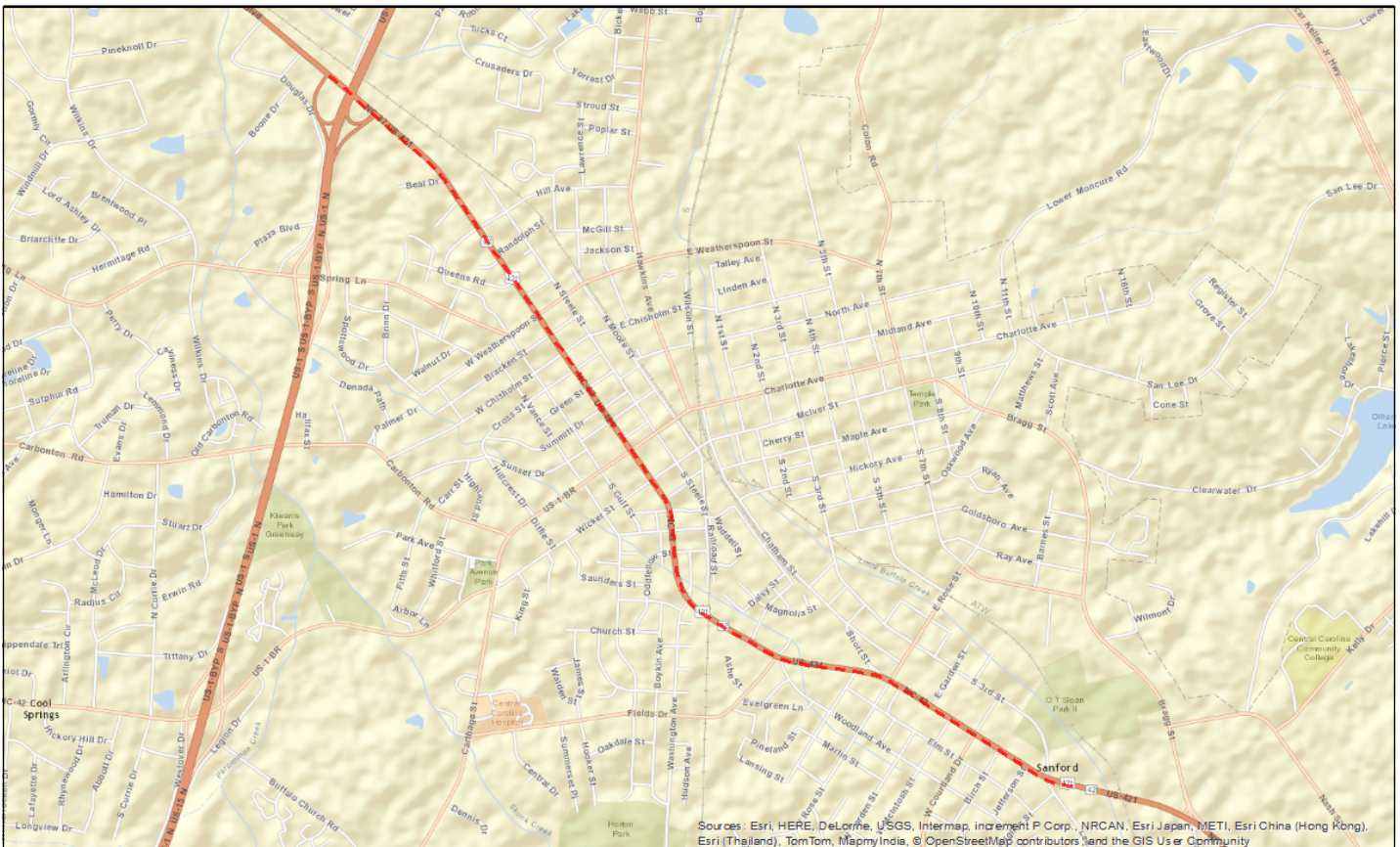
Reconstruct As a "Complete Street" with Improvements Such As Medians, Sidewalks, Bicycle Facilities, and Streetscaping, Following Completion of New US 421 Bypass

**Division(s):** Division 8

**County(s):** LEE

**MPOS(s)/RPO(s):** Triangle Area RPO

### Project Location



**Statewide Mobility Total Score: 0**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
<b>Totals: Weight: 0% Weighted Score: 0</b>	N/A	N/A

**Regional Impact Total Score: 35.71**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 44.36 Safety (10%) 82.44 [Travel Time] Benefit/Cost (25%) 0.36 Accessibility / Connectivity (10%) 12.90	Percent: 15% Points: 0	Percent: 15% Points: 100
<b>Totals: Weight: 70% Weighted Score: 20.71</b>		

**Division Needs Total Score: 57.94**

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 44.36 Safety (10%) 82.44 [Travel Time] Benefit/Cost (20%) 0.36	Percent: 25% Points: 63	Percent: 25% Points: 100
<b>Totals: Weight: 50% Weighted Score: 17.19</b>		

**Project Data \*****Existing Conditions**

Existing Cross-Section:	
Speed Limit:	45
Length (miles):	3.22
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	11
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	Yes
Volume (AADT):	19346.58
Capacity:	31700
Volume/Capacity Ratio:	0.61
% Autos:	80%
% Trucks:	20%
Truck Volume:	3948.98
Crash Density:	76.86
Crash Severity:	86.68
Critical Crash Rate:	83.81
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	2
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	19
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	53
Actual Congested Speed:	30.85
Travel Time Index:	1.11

**Project Benefits**

Project Cross-Section:	4D - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, Bike Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	3.22
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	540562.26
Travel Time Savings for 30 Years (Autos):	430223.97
Travel Time Savings for 30 Years (Trucks):	110338.29
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 8

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

**Project Ownership****Division**

<b>Division</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Division 8	100%	0	63
	0%	0	0
	0%	0	0
<b>TOTAL Division Points</b>		<b>0</b>	<b>63</b>

**MPO/RPO**

<b>MPO/RPO</b>	<b>Percent</b>	<b>Regional Impact</b>	<b>Division Needs</b>
Triangle Area RPO	100%	100	100
	0%	0	0
	0%	0	0
<b>TOTAL MPO/RPO Points</b>		<b>100</b>	<b>100</b>

**Project Cost and Source**

Construction Cost:	\$24,168,000	TIP Unit
Right-of-Way Cost:	\$10,704,000	Cost Estimation Tool
Utilities Cost:	\$1,284,000	Cost Estimation Tool
Total Project Cost:	\$36,156,000	
Other Funding:	\$0	None
<b>Cost to NCDOT :</b>	<b>\$36,156,000</b>	